Message

From: Lisa Rector [lrector@nescaum.org]
Sent: 8/29/2018 8:04:57 PM
To: Johnson, Steffan [johnson.steffan@epa.gov]
Subject: RE: question

Ha! Honored....you shouldn't be but hey I will take a comment any day, these days. In terms of the why I keep going back to my mantra, which I think is similar to yours, "I just want to get this right." Let me talk to George tomorrow and see what he suggests. I think I have a staffer with a little free time who could work on this. Do you have any availability tomorrow to talk if we have a breakthrough?

From: Johnson, Steffan <johnson.steffan@epa.gov>
Sent: Wednesday, August 29, 2018 4:01 PM
To: Lisa Rector <lrector@nescaum.org>
Subject: RE: question

Lisa,

Wow, I'm honored that you would ask/offer.

While the geek in me would love to see several test runs where one filter was kept dry while the other probe was chilled and the filter wetted (because I'm dying to know the delta there)...I believe you may already have enough data to provide meaningful information.

Specifically, tunnel flow v RH v Temp in the tunnel. The challenge is HOW BEST to control RH to prevent wetting a filter that is held between 80 and 90 deg f. Likely this is simply increasing the tunnel flow BUT....then the tester should have a larger tunnel to bring the velocity back down and maintain a decent residence time for the PM to age/form.

Of course this cuts a wide swath between load conditions, stove sizes and wood moisture (to a lesser extent). The goal in my eyes is to derive a tunnel flow band that allows for using (hopefully) 1 diameter of tunnel, a variety of load conditions and stove sizes, and keeps the dewpoint below 80 F at the filter.

THAT is data that would be quite useful, in my estimation. Not that you need work to do, but since you asked...

Thoughts?

Stef

From: Lisa Rector [mailto:lrector@nescaum.org]
Sent: Wednesday, August 29, 2018 3:53 PM
To: Johnson, Steffan <johnson.steffan@epa.gov>
Subject: question

So George and I are not looking for work but with all our testing data at Mark's we do have a unique database re: water in a 5G test and I wanted to see if you see any value in having us try to pull together and analysis some of that data. For all our testing, we have data for both tunnel and room T/RH/DP, along with all the combustion / scale info, and the burn include a wide range of fuel loads from small to huge >40lb for a single reload. Do you think working up some or all of our information could inform the dialogue. Any thoughts/suggestions?

Lisa

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